

Attachment A

Minimum Requirements:

Compliant, Type I Requirements	FAA-E-2751, Product Specification (Attachment B)
Frequency Range	1030 \pm 3.5 MHz
Transmit	1090 \pm 5 MHz
VSWR, Max.	1.5:1
Impedance	50 ohms
Power Handling Capacity (Minimum)	10Kw peak, 100W average
Polarization	Vertical
Antenna Gain Sum Channel	26 dBi min.

Azimuth Patterns:

Sum Channel 3 dB Beamwidth at Horizon	2.4 \pm 0.25°
Sum Channel (Maximum Sidelobe)	25 dB below local peak
Difference Channel (Maximum Sidelobe)	24 dB below local peak
Sum Difference Pattern Crossover Points	-3 \pm 0.5 dB
Cross Polarization (all channels)	30 dB below Sum peak
SLS coverage-Sum Sidelobes/Backlobes	3 dB Min. (6 dB typical)
Elevation Patterns, Type I	FAA-E-2751, Product Specification (Attachment B)
Operating Lifetime (Minimum)	20 years

Mechanical:

Weight (approx. excluding adapter kit)	635 lbs
Input Connectors	Type N Jack
Dimensions (Maximum):	
Height	69.9 inches

Width	316.7 inches
-------	--------------

Environmental:

Elevation above sea level (Maximum)	12,000 ft.
Temperature in degrees Centigrade	-50 to +70 C
Relative Humidity	0 to 100%
Barometric Pressure (Maximum)	30.5 inches Hg
Wind Gusts conditions (Maximum)	85 knots
Icing conditions (Maximum)	2 inches